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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,557	06/19/2006	Kenichi Motoyama	292358US0PCT	9829
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAMINER	
			LOEWE, ROBERT S	
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			1796	
			NOTIFICATION DATE	DELIVERY MODE
			01/14/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)	
	10/583,557	MOTOYAMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	ROBERT LOEWE	1796	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	e correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior. - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be not will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 22 2a) This action is FINAL . 2b) ▼ The 3 This action is application is in condition for allow closed in accordance with the practice under	nis action is non-final. /ance except for formal matters, p		
Disposition of Claims			
4) Claim(s) 1-6 and 16-25 is/are pending in the 4a) Of the above claim(s) is/are withdi 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 and 16-25 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and Application Papers	rawn from consideration.		
9) The specification is objected to by the Examination The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the specific specific and specific specifi	ccepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	nts have been received. Ints have been received in Applicationity documents have been rece eau (PCT Rule 17.2(a)).	ation No ived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		

DETAILED ACTION

The Examiner would like to point out that the application number shown by Applicant's response on 12/22/08 should be 10/583,557, not 11/583,557.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/22/08 has been entered.

Response to Arguments

Applicant's arguments filed 12/22/08 have been fully considered but they are not persuasive.

Applicants argue that their working examples demonstrate the superior results which are obtained when employing the ureidoalkoxysilanes according to their invention. However, while the working examples and comparative examples do show differences in the abrasion resistance, there are no working examples which **directly** show the non-equivalency between aminopropyltrimethoxysilane as employed by Nogami et al. and ureidopropyltriethoxysilane as employed in the instant invention. The Examiner suggests repeating example 3 of Nogami et al. with the **only** difference being the substitution of the aminopropyltrimethoxysilane with ureidopropyltriethoxysilane. A showing by the Applicants of the non-equivalency of the two

Art Unit: 1796

silanes would be needed to overcome the 103(a) rejection relied upon below. A direct comparison between the physical properties of the resulting coated films (which are prepared in an identical fashion in a manner which is satisfied by the instant claims) would be required. A showing that such coated films are non-equivalent can then be directly correlated as arising from any potential differences between ureidopropyltriethoxysilane and aminopropyltrimethoxysilane. The 103(a) rejection may be overcome by showing the improvement in the physical properties of the coated films prepared according to the instant invention and those prepared as taught in Nogami et al.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-6 and 16-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nogami et al. (US Pat. 5,800,926), in view of Hayashi et al. (US Pat. 6,800,330)

The coating solutions of examples 3 and 4 of Nogami et al. and the coated films of example 6 and Table 1 satisfies all of the limitations of the instant claims with the exception that instead of the ureidotrialkoxysilane as required by the instant claims, Nogami et al. employs an aminopropyltrialkoxysilane (example 3).

Page 4

In example 3, Nogami et al. employs 0.045 mol of TEOS [compound which satisfies formula (1) of the instant claims]; 0.0132 mol of tridecafluorooctyltrimethoxysilane [compound which satisfies formula (2) of the instant claims]; 0.0034 mol of aminopropyltrimethoxysilane, ethanol [which satisfies formula (4) of the instant claims] and oxalic acid. The ratio of compound (B) to compound (A) is calculated to be 0.29. The ratio of the aminopropyltrimethoxysilane to compound (A) is calculated to be 0.074. The ratio of ethanol (D) to the total amount of alkoxy groups is calculated to be 8.3 and the ratio of oxalic acid to the total amount of alkoxy groups is calculated to be 0.72. The coating solutions were heated according to that taught at 2:58-64, which satisfies the limitations of the instant claims. The resulting polysiloxane coating solution (L₃) was dried at 80 °C then heated to 100 °C, which satisfies the limitations of the instant claims. Example 4 of Nogami et al. teaches the addition of a silica sol to the coating fluid which satisfies the limitations of the instant claims.

As stated above, Nogami et al. does not explicitly teach the addition of an ureidoalkyltrialkoxysilane [formula (3) of instant claim 1]. However, Hayashi et al. teaches that aminopropyltrimethoxysilane and ureidopropyltrimethoxysilane are functional equivalents as silane coupling agents/adhesion promoters (14:66-15-25). Nogami et al. and Hayashi et al. are combinable because they are from the same field of endeavor, namely, polysiloxane films prepared via hydrolysis and condensation of alkoxysilane precursors. It is *prima facie* obvious to

Art Unit: 1796

substitute equivalents, motivated by the reasonable expectation that the respective species will behave in a comparable manner or give comparable results in comparable circumstances. *In re Ruff* 118 USPQ 340. See MPEP 2144.06. The express suggestion to substitute one equivalent for another need not be present to render the substitution obvious. *In re Font*, 213 USPQ 532.

Taken together, Nogami et al. in view of Hayashi et al. collectively teaches a process for preparing a coating fluid according to instant claims 1-3; a process for forming a coating film according to instant claims 4-6 and 16; a coating film which satisfies the physical properties of instant claims 17-19; a process for preparing a coating film which satisfies the physical properties of instant claims 20-23; and a coating film which satisfies the physical properties of instant claims 24-26. While Nogami et al. in view of Hayashi et al. do not explicitly teach coated films which satisfy the physical properties of the instant claims, a chemical composition and its properties are inseparable.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ROBERT LOEWE whose telephone number is (571)270-3298. The examiner can normally be reached on Monday through Friday from 5:30 AM to 3:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on (571) 272-13021302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/583,557 Page 6

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. L./ Examiner, Art Unit 1796 5-Jan-09

/Randy Gulakowski/ Supervisory Patent Examiner, Art Unit 1796